

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/015579

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7	C07D233/90	C07D249/06	C07D401/04	C07D401/06	C07D401/12
	C07D401/14	C07D403/04	C07D403/06	C07D403/14	C07D405/04
	C07D405/14	C07D409/04	C07D409/14	C07D413/06	C07D417/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C07D A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BEILSTEIN Data, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 329 275 A (ICI AMERICA INC) 27 May 1977 (1977-05-27) page 8, line 27 - line 34; claims 1,9,10; examples 89,90 ----- IVANOV E. I. ET AL: "Synthesis of 1,2,3-Triazolo'5,4-e!-1,4-diazepine" JOURNAL OF ORGANIC CHEMISTRY OF THE USSR, vol. 25, no. 9, 1989, pages 1785-1789, XP009037402 page 1786 - page 1788; compound VIC ----- -/-	1-4, 11, 16, 19
X		1-4, 9

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

6 October 2004

Date of mailing of the international search report

21/10/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>KATRITZKY A R, SINGH S K: "Synthesis of C-Carbamoyl-1,2,3-triazoles by Microwave-Induced 1,3-Dipolar Cycloaddition of Organic Azides to Acetylenic Amides" JOURNAL OF ORGANIC CHEMISTRY, vol. 67, 2002, pages 9077-9079, XP002299474 compounds 8A,10A in scheme 1 and page 9079, column 2</p> <p>-----</p> <p>WO 97/40025 A (DOERWALD FLORENCIO ZARAGOZA ; NOVONORDISK AS (DK)) 30 October 1997 (1997-10-30) page 23, line 1 - line 7 page 24, line 10 - line 14 page 25, line 1 - line 5; claims 1,12,35,36</p> <p>-----</p> <p>BIAGI G ET AL: "N&lt;6&gt;-Cycloalkyl-2-phenyl-3-deaza-8-azaadenines: a new class of A1 adenosine receptor ligands. A comparison with the corresponding adenines and 8-azaadenines" EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, EDITIONS SCIENTIFIQUE ELSEVIER, PARIS, FR, vol. 38, no. 11-12, November 2003 (2003-11), pages 983-990, XP004475843 ISSN: 0223-5234 figure 4; compound 24</p> <p>-----</p> <p>KATRITZKY A. R. ET AL: "1,3-Dipolar cycloadditions of organic azides to ester or benzotriazolylcarbonyl activated acetylenic amides" ARKIVOC, vol. 15, 2003, pages 47-64, XP002299475 Compound 21a in scheme 6 and on page 61</p> <p>-----</p> <p>WO 03/091226 A (GARDINIER KEVIN MATTHEW ; HEMBRE ERIK JAMES (US); MUEHL BRIAN STEPHEN) 6 November 2003 (2003-11-06) the whole document</p> <p>-----</p> <p>WO 03/091227 A (GARDINIER KEVIN MATTHEW ; HEMBRE ERIK JAMES (US); MUEHL BRIAN STEPHEN) 6 November 2003 (2003-11-06) the whole document</p> <p>-----</p> <p>WO 02/08232 A (HOFFMANN LA ROCHE) 31 January 2002 (2002-01-31) page 3, line 14 - line 19; claims</p> <p>-----</p>	1-4,11
X		19
P,X		1-4,7,9
P,X		1-4,6,11
P,Y		1-21
P,Y		1-21
A		1-21
	-/-	

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**C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 699 665 A (LILLY CO ELI) 6 March 1996 (1996-03-06) page 17; claims -----	1-21
A	EP 1 176 144 A (SOLVAY PHARM GMBH) 30 January 2002 (2002-01-30) page 7, line 38 - page 9, line 26; claims -----	1-21
A	US 5 998 444 A (RUSSELL KEITH) 7 December 1999 (1999-12-07) claims -----	1-21

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### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  
Although claims 17 and 18 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.  Claims Nos.: because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

#### Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
FR 2329275	A	27-05-1977	AU 1881176 A BE 847480 A1 DE 2648826 A1 DK 478176 A FI 763050 A FR 2329275 A1 JP 52053863 A LU 76062 A1 NL 7611944 A NO 763569 A SE 7611884 A	27-04-1978 20-04-1977 05-05-1977 29-04-1977 29-04-1977 27-05-1977 30-04-1977 18-05-1977 02-05-1977 29-04-1977 29-04-1977
WO 9740025	A	30-10-1997	AU 2633897 A WO 9740025 A1	12-11-1997 30-10-1997
WO 03091226	A	06-11-2003	WO 03091226 A1 WO 03091227 A1	06-11-2003 06-11-2003
WO 03091227	A	06-11-2003	WO 03091226 A1 WO 03091227 A1	06-11-2003 06-11-2003
WO 0208232	A	31-01-2002	AU 8200501 A BR 0112695 A CA 2416874 A1 CN 1444589 T CZ 20030528 A3 WO 0208232 A1 EP 1305319 A1 HR 20030031 A2 HU 0301272 A2 JP 2004504400 T NO 20030353 A NZ 523452 A US 2003130508 A1 US 2002038030 A1	05-02-2002 22-04-2003 31-01-2002 24-09-2003 17-09-2003 31-01-2002 02-05-2003 29-02-2004 28-08-2003 12-02-2004 23-01-2003 30-07-2004 10-07-2003 28-03-2002
EP 0699665	A	06-03-1996	US 6175013 B1 AT 233737 T CA 2151113 A1 DE 69529790 D1 DE 69529790 T2 DK 699665 T3 EP 0699665 A1 ES 2193171 T3 JP 7330736 A PT 699665 T	16-01-2001 15-03-2003 11-12-1995 10-04-2003 06-11-2003 31-03-2003 06-03-1996 01-11-2003 19-12-1995 30-06-2003
EP 1176144	A	30-01-2002	DE 10036818 A1 AT 244716 T AU 5767501 A BR 0103048 A CA 2354213 A1 CN 1335316 A CZ 20011813 A3 DE 50100358 D1 DK 1176144 T3 EP 1176144 A1 ES 2201007 T3	07-02-2002 15-07-2003 31-01-2002 02-04-2002 28-01-2002 13-02-2002 13-03-2002 14-08-2003 27-10-2003 30-01-2002 16-03-2004

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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)		Publication date
EP 1176144	A	HU	0102931 A2	28-11-2002
		JP	2002053577 A	19-02-2002
		NO	20013709 A	29-01-2002
		NZ	513041 A	20-12-2002
		PL	348946 A1	11-02-2002
		PT	1176144 T	28-11-2003
		SK	7572001 A3	05-02-2002
		US	2002065276 A1	30-05-2002
		ZA	200105737 A	22-01-2002
US 5998444	A	07-12-1999	US 6147083 A	14-11-2000